

Substitute for form 1449B/PTO

Complete if Known

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 3

Application Number 09/008,947

Filing Date 1/20/1998

First Named Inventor Mills

Group Art Unit 1745

Examiner Name Kalafut

Attorney Docket Number

AUG 15 2001
APPROX To #30
TC 1700

OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
OK		ABELÈS, Ed., Chapter 9, "Structure of Trapped Electron and Trapped Hole Centers in Alkali Halides 'Color Centers'", <i>Optical Properties of Solids</i> , 1972, pp. 718-754, North-Holland Publishing Company, Amsterdam (North NA)	
OK		DELBECQ <i>et al.</i> , "Pragmatic Resonance Investigation of Irradiated KCl Crystals Containing U-Centers", <i>Phys. Rev.</i> , Nov. 1, 1956, 104 , pp. 599-604	
OK		DÖTSCH <i>et al.</i> , "Localized Vibrations of H ⁺ and D ⁺ Ions in NaF and LiF", <i>Solid States Communications</i> , 1965, 3 , pp. 297-298 (North NA)	
OK		RAUCH <i>et al.</i> , "Some F-Band Optical Oscillator Strengths in Additively Colored Alkali Halides", <i>Physical Review</i> , Feb. 1, 1957, 105 , pp. 914-920	
OK		FISCHER <i>et al.</i> , "Sh ⁻ , S ⁻ Und S ⁻ -Zentren In KC1-Kristallen", <i>Physics Letters</i> , Oct. 27, 1964, 13 , pp. 113-114	
OK		FRIED <i>et al.</i> , "Solution for the Two-Electron Correlation Function in a Plasma", <i>The Physical Review</i> , Apr. 1, 1961, 122 , pp. 1-8	
OK		ALGER <i>et al.</i> , "F Centers in Pure and Hydride-Containing Alkali Halide Crystals", <i>Physical Review</i> , Jan. 15, 1955, 97 , pp. 277-287	
OK		SCHEARER <i>et al.</i> , "Microwave Saturation of Paraelectric-Resonance Transitions of OH ⁻ Ions in Kcl:", <i>Solid State Communications</i> , 1966, 4 , pp. 639-642 (North NA)	
OK		KERKHOFF <i>et al.</i> , "Elektronenspin-Resonanz und Photochemie des U ₂ -Zentrums in Alkalihalogenid-Kristallen", <i>Zeitschrift für Physik</i> , 1963, 173 , pp. 184-202 (North NA)	
OK		KERKHOFF, "Zum photochemischen Verhalten sauerstoffhaltiger Komplexe in Alkalihalogenidkristallen", <i>Zeitschrift für Physik</i> , 1960 158 , pp. 595-606 (North NA)	

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2

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Application Number

09/008,947

Filing Date

1/20/1998

First Named Inventor

Mills

Group Art Unit

1745

Examiner Name

Kalafut

Attorney Docket Number

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OK		FISCHER, "Die optische Absorption der U ₂ -Zentren in Alkalihalogeniden des BaCl-Typs", <i>Zeitschrift für Physik</i> , 1967, 204 , pp. 351-374 (MATH WIKMAN)	
OK		MARTIENSSSEN, "Photochemische Vorgänge in Alkalihalogenidkristallen", <i>Zeitschrift für Physik</i> , 1952, 131 , pp. 488-504 (MATH WIKMAN)	
OK		THOMAS, "Zur Photochemie des KH-KBr-Mischkristalles", <i>Annalen der Physik.</i> , 1940, 38 , pp. 601-608 (MATH WIKMAN)	
OK		HILSCH, "Über die Diffusion und Reaktion von Wasserstoff in KBr-Kristallen", <i>Annalen der Physik.</i> , 1937, 40 , pp. 407-420 (MATH WIKMAN)	
OK		V. LÜPKE, "Über Sensibilisierung der photochemischen Wirkung in Alkalihalogenidkristallen", <i>Annalen der Physik.</i> , 1934, 21 , pp. 1-14 (MATH WIKMAN)	
OK		BÄUERLE <i>et al.</i> , "Infrared Vibrational Absorption by U-Centers in NaI", <i>Phys. Stat. Sol.</i> , 1967, 24 , pp. 207-215 (MATH WIKMAN)	
OK		FRITZ <i>et al.</i> , "Infrared Absorption and Anharmonicity of the U-Centre Local Mode", <i>Phys. Stat. Sol.</i> , 1965, 11 , pp. 231-239 (MATH WIKMAN)	
OK		KLEINSCHROD, "Photochemische Zersetzung von KH und KD in KBr-Kristallen", <i>Ausgegeben</i> , Jan. 5, 1939, pp. 143-148 (MATH WIKMAN)	
OK		HILSCH, "Eine neue Lichtabsorption in Alkalihalogenidkristallen", <i>Fachgruppe II</i> , pp. 322-328 1933 (MATH WIKMAN)	
OK		FRITZ, "Anionlücken und Zwischengitterionen in Alkalihalogenid-Alkalihydrid-Mischkristallen", <i>J. Phys. Chem. Solids</i> , 1962, 23 , pp. 375-394, Pergamon Press, Great Britain (MATH WIKMAN)	

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Group Art Unit	1745
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Examiner Name	Kalafut
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Attorney Docket Number

Sheet

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ATTACH TO #30

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PTO/SB/08B (Modified)

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		Group Art Unit	1745		
		Examiner Name	Kalafut		
Sheet	7	of	10	Attorney Docket Number	62-226-8A1

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SK		R. Mills, J. Sankar, P. Ray, B. Dhandapani, J. He, "Spectroscopic Characterization of the Atomic Hydrogen Energies and Densities and Carbon Species During Helium-Hydrogen-Methane Plasma CVD Synthesis of Single Crystal-Diamond Films", Chemistry of Materials, submitted. (PUB. DATE UNKNOWN)	
OK		R. Mills, P. Ray, R. M. Mayo, "Stationary Inverted Balmer and Lyman Populations for a CW HI Water-Plasma Laser", IEEE Transactions on Plasma Science, submitted. (PUB. DATE UNKNOWN)	
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SK		R. Mills, P. Ray, R. Mayo, "Water-Plasma Medium for a Hydrogen Laser", J of Phys. Chem. Lett., submitted. (PUB. DATE UNKNOWN)	
OK		R. Mills, P. Ray, R. Mayo, "The Potential for an Extremely Versatile Hydrogen Water-Plasma Laser", Phys. Rev. E, submitted. (PUB. DATE UNKNOWN)	
OK		R. L. Mills, B. Dhandapani, J. He, J. Sankar, "CVD Synthesis of Single Crystal Diamond Films on Silicon Substrates Without Seeding", Diamond and Related Materials, submitted. (PUB. DATE UNKNOWN)	
OK		R. L. Mills, X. Chen, P. Ray, J. He, B. Dhandapani, "Plasma Power Source Based on a Catalytic Reaction of Atomic Hydrogen Measured by Water Bath Calorimetry", Thermochemica Acta, submitted. (PUB. DATE UNKNOWN)	
OK		R. L. Mills, A. Voigt, B. Dhandapani, J. He, "Synthesis and Spectroscopic Identification of Lithium Chloro Hydride", Materials Characterization, submitted. (PUB. DATE UNKNOWN)	
SK		R. L. Mills, B. Dhandapani, J. He, "Highly Stable Amorphous Silicon Hydride", J of Materials Research, submitted. (PUB. DATE UNKNOWN)	

Examiner Signature	<i>B. Kalafut</i>	Date Considered	10/10/02
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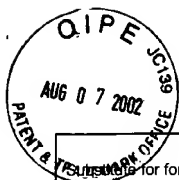
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OK		R. L. Mills, "Classical Quantum Mechanics", Physica Scripta., submitted. (PUB. DATE UNKNOWN)	
OK		R. L. Mills, P. Ray, "Spectroscopic Characterization of Stationary Inverted Lyman Populations and Free-Free and Bound-Free Emission of Lower-Energy State Hydride Ion Formed by a Catalytic Reaction of Atomic Hydrogen and Certain Group I Catalysts," Quantitative Spectroscopy and Radiative Transfer, submitted. (PUB. DATE UNKNOWN)	
OK		R. Mayo, R. Mills, "Direct Plasmadynamic Conversion of Plasma Thermal Power to Electricity for Microdistributed Power Applications", 40th Annual Power Sources Conference, Cherry Hill, NJ, June 10-13, (2002), in press. PS	
OK		R. Mills, P. Ray, R. Mayo, "Chemically-Generated Stationary Inverted Lyman Population for a CW HI Laser", J Vac. Sci. and Tech. A, submitted. (PUB. DATE UNKNOWN)	
OK		R. L. Mills, P. Ray, B. Dhandapani, J. Dong, S. Hicks, M. Nansteel, X. Chen, J. He, R. Mayo, Plasma Power Source Based on a Catalytic Reaction of Atomic Hydrogen, Fuels and Energy, submitted. (PUB. DATE UNKNOWN)	
OK		R. L. Mills, P. Ray, "Stationary Inverted Lyman Population Formed from Incandescently Heated Hydrogen Gas with Certain Catalysts", J. Phys. Chem. Lett., submitted. (PUB. DATE UNKNOWN)	
OK		R. Mills, "A Maxwellian Approach to Quantum Mechanics Explains the Nature of Free Electrons in Superfluid Helium", Foundations of Science, submitted. (PUB. DATE UNKNOWN)	

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Sheet **10**

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<i>OK</i>		Barton, et al, "Investigating Radio Frequency Plasmas Used for the modification of Polymer Surfaces." <i>J. Phys. Chem. B</i> , Vol 103, 1999, pp. 4423-4430.	
<i>OK</i>		Bogaerts, et al. "Effects of adding hydrogen to an argon glow discharge: overview of relevant processes and some qualitative explanations." <i>Journal of Analytical Atomic Spectrometry</i> , March 2000.	
<i>OK</i>		Dery, et al. "Effect of Dielectric Constant, Cavities in Series and Cavities in Parallel on the Product Distribution of the Oligomerization of Methane via Microwave Plasmas." <i>J. Phys. Chem.</i> , Vol 100, 1996, pp. 17866-17872.	
<i>OK</i>		Roberts, et al. "Hydrogen Balmer alpha line shapes for hydrogen-argon mixtures in a low-pressure rf discharge." <i>J. Appl. Phys.</i> , Vol 74, No 11, December 1993.	
<i>OK</i>		Videnovic, et al. "Spectroscopic investigations of a cathode fall region of the Grimm-type glow discharge." <i>Spectrochimica Acta Part B</i> , Vol 10, 1996, pp. 1707-1731.	

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PTO/SB/08B (Modified)

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Sheet	1	of	80	Attorney Docket Number	62-226-8A2
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OK		R. L. Mills, P. Ray, "High Resolution Spectroscopic Observation of the Bound-Free Hyperfine Levels of a Novel Hydride Ion Corresponding to a Fractional Rydberg State of Atomic Hydrogen", Int. J. Hydrogen Energy, in press.
OK		R. L. Mills, E. Dayalan, "Novel Alkali and Alkaline Earth Hydrides for High Voltage and High Energy Density Batteries", Proceedings of the 17 th Annual Battery Conference on Applications and Advances, California State University, Long Beach, CA, (January 15-18, 2002), in press.
OK		R. Mayo, R. Mills, M. Nansteel, "On the Potential of Direct and MHD Conversion of Power from a Novel Plasma Source to Electricity for Microdistributed Power Applications", IEEE Transactions on Plasma Science, submitted.

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OK		R. L. Mills, A. Voigt, P. Ray, M. Nansteel, B. Dhandapani, "Measurement of Hydrogen Balmer Line Broadening and Thermal Power Balances of Noble Gas-Hydrogen Discharge Plasmas", Int. J. Hydrogen Energy, in press. (DATE UNKNOWN)	
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OK		R. Mills, P. Ray, "Spectral Emission of Fractional Quantum Energy Levels of Atomic Hydrogen from a Helium-Hydrogen Plasma and the Implications for Dark Matter", Int. J. Hydrogen Energy, Vol. 27, No. 3, (2002) pp. 301-322. (MONTH UNKNOWN)	
OK		R. Mills, P. Ray, "Spectroscopic Identification of a Novel Catalytic Reaction of Potassium and Atomic Hydrogen and the Hydride Ion Product", Int. J. Hydrogen Energy, Vol. 27, No. 2, (2002), pp. 183-192. (MONTH UNKNOWN)	
OK		R. Mills, "BlackLight Power Technology-A New Clean Hydrogen Energy Source with the Potential for Direct Conversion to Electricity", Proceedings of the National Hydrogen Association, 12 th Annual U.S. Hydrogen Meeting and Exposition, Hydrogen: The Common Thread, The Washington Hilton and Towers, Washington DC, (March 6-8, 2001), pp. 671-697.	
OK		Keith Keefer, Ph.D., "Interim Report on BlackLight Power Technology: Its Apparent Scientific Basis, State of Development and Suitability for Commercialization by Liebert Corporation." (DATE UNKNOWN)	
OK		R. Mills, "The Grand Unified Theory of Classical Quantum Mechanics," (2001), Distributed by Amazon.Com. (MONTH N.A.)	
Examiner Signature	J. Kalafut		Date Considered
		10/10/02	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

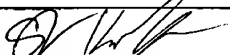
¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08A (Modified)

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>		Complete if Known	
		Application Number	09/008,947
		Filing Date	01/20/1998
		First Named Inventor	Mills
		Group Art Unit	1745
		Examiner Name	Kalafut
Sheet 4	of 10	Attorney Docket Number	62-226-8A1

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code* (if known)			
OK OK OK OK OK OK		3 253 884		Jung, et al	05-31-1966	
		4 353 871		Barditt et al	10-12-1982	
		4 702 894		Comish	10-27-1987	
		4 808 286		Angelo, II	02-28-1989	
		5 593 640		Long, et al	01-14-1997	
		4 337 126		Gilligan, III et al	06-29-1982	
		4 155 712		Taschek	05-22-1979	

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ²
		Office ³	Number ⁴	Kind Code ⁵ (if known)				

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¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3) ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08B (Modified)

Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known	
		Application Number	09/008,947
		Filing Date	01/20/1998
		First Named Inventor	Mills
		Group Art Unit	1745
		Examiner Name	Kalafut
Sheet 5	of 10	Attorney Docket Number 62-226-8A1	

OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.†	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
SVK		Radavanov, et. al. "Ion Kinetic-Energy Distributions and Balmer- α Excitation in Ar-H ² Radio-Frequency Discharges" J. Appl. Phys. Vol. 78, No. 2, pp. 746-756, July 1995.	
OK		Thorne, et. al., "Recombination during the Electrolysis of Light Water in 0.6 M K ₂ CO ₃ Can It Account for the Reports of Excess Heat?" Departments of Physics and Chemistry, Brigham Young University, June 1993.	
OK		Beiser, A. <i>Concepts of Modern Physics</i> , Fourth Edition, McGraw-Hill Book Company, New York, 1978, p. 407.	
OK		Boniface, et. al. "Calorimetry for a Ni/K ₂ CO ₃ Cell." AECL Research, June 1994.	
OK		Bradford. "A Calorimetric Investigation of the Reaction of Hydrogen with Sample PSU #1." A Confidential Report submitted to Hydrocatalysis Power Corporation, September 1994.	
OK		Clark, et. al. "Excess Energy Cell Final Report." April 1995.	
OK		Evans, et. al. "Time-of-Flight Secondary Ion Mass Spectroscopy (TOF-SIMS) Surface Analysis Report." CE & A Number 40150, March 1994.	
OK		Evans, et. al. "XPS/ESCA Results." CE & A Number 44545, Nov 1994.	
OK		Gernert, et. al. "Anomalous Heat From Atomic Hydrogen in Contact with Potassium Carbonate." Thermacore, Inc. (Note: KAK/KAMS)	
OK		Haus. "On the radiation from point charges." <i>American Journal of Physics</i> , Vol 54, No 12, December 1986. Pp. 1126-1129.	
OK		Jansson. "Hydrocatalysis: A New Energy Paradigm for the 21 st Century." A Thesis, Master of Science in Engineering Degree in the Graduate Division of Rowan University, May 1997.	

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		Examiner Name	Kalafut
Sheet 6	of 10	Attorney Docket Number	62-226-8A1

OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
OK		Jacox, et. al. "INEL XPS Report." Idaho National Engineering Laboratory, EG & G Idaho, Inc., Nov 1993.	
OK		Karapilus and Porter. <i>Atoms and Molecules: An Introduction for Students of Physical Chemistry</i> . The Benjamin/Cummings Publishing Company, Menlo Park, California, 1970, p. 567. (NOT KNOWN)	
OK		Kline-Anderson, Inc. "Review of Schedule and Resource Requirements to Develop a Hydrocatalysis Functional Prototype Unit." Final Report for Technology Insights, Oct 1996.	
OK		Kurtz, et. al. "Report on Calometric Investigations of Gas-Phase Catalyzed Hydrino Formation." Hydrocatalysis Power Corp. Report, December 1996.	
OK		Peterson. "Evaluation of Heat Production from Light Water Electrolysis Cell of Hydrocatalysis Power Corporation." Draft, Westinghouse STC, Feb 1994.	
OK		Phillips, et. al. "Additional Calorimetric Examples of Anomalous Heat From Physical Mixture of K/Carbon and PD/Carbon." Consulting Report, Jan 1996.	
OK		Technology Insights. "Draft: Hydrocatalysis Technical Assessment." PACIFICORP, Aug 1996.	
OK		Thermacore, Inc. "SBIR Phase I Nascent Hydrogen: An Energy Source." Final Report, March 1994.	
OK		Weisskopf, V.F. "Recent developments in the theory of the electron." <i>Reviews of Modern Physics</i> , Vol 21, No 2, 1949, pp. 305-315.	

Examiner Signature		Date Considered	12/10/02
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